CLAIMS

What is claimed is:

1   1.   A method for compressing a message comprising:

2   identifying a block of data within said message which is found in a

3   previous message;

4   generating a pointer identifying said block of data in said previous

5   message; and

6   replacing said block of data in said message with said pointer.

1   2.   The method as in claim 1 further comprising:

2   transmitting said message to a data processing device, said data

3   processing device having said previous message stored thereon.

1   3.   The method as in claim 2 further comprising:

2   decompressing said message by inserting said block of data from said

3   previous message into said message.

1   4.   The method as in claim 1 further comprising:

2   identifying said previous message based on characters in said message's

3   subject field.

1   5.   The method as in claim 4 wherein said characters include text

2   indicating that said message is a response to said previous message.

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1   6.   The method as in claim 1 further comprising:

2   compressing said message further using one or more alternate

3   compression techniques.

1   7.   The method as in claim 6 wherein one of said alternate compression

2   techniques comprises:

3   replacing common strings of characters with one or more code words.

1   8.   The method as in claim 7 wherein one of said strings of characters is

2   an email address domain.

1   9.   The method as in claim 1 further comprising:

2   encoding portions of text in said message not in said block of data using

3   6-bits per character.

1   10. The method as in claim 1 wherein said message is an email

2   message.

1   11. A system for compressing messages comprising:

2   message identification logic for identifying a previous message which

3   contains a block of data found in a new message;

4   state-based compression logic for compressing said message by

5   replacing said block of data with a pointer identifying said block of data in said

6   previous message.

1   12. The system as in claim 11 further comprising:

2   transmission logic for transmitting said message to a data processing

3   device, said data processing device having said previous message stored

4   thereon.

1   13. The system as in claim 12 further comprising:

2   decompression logic to decompress said message on said wireless data

3   processing device by inserting said block of data from said previous message

4   into said message.

1   14. The system as in claim 11 wherein said message identification logic

2   identifies said previous message based on characters in said message's subject

3   field.

1   15. The system as in claim 14 wherein said characters include text

2   indicating that said message is a response to said previous message.

1   16. The system as in claim 11 further comprising:

2   one or more alternate compression modules for compressing said

3   message further using one or more alternate compression techniques.

1   17. The system as in claim 16 wherein one of said alternate compression

2   modules comprises:

3   a code word generation module which replaces common strings of

4   characters with one or more code words.

1   18. The system as in claim 17 wherein one of said strings of characters is

2   an email address domain.

1   19. The system as in claim 16 wherein one of said alternate compression

2   modules comprises a 6-bit text encoding module to encode portions of text in

3   said message not in said block of data using 6-bits per character.

1   20. The system as in claim 11 wherein said message is an email

2   message.

1   21. A method comprising:

2   providing an interface to a message service, said interface compressing

3   messages and forwarding said compressed messages to a data processing

4   device,

5   wherein said interface compresses a message by searching for prior

6   messages transmitted to or received from said data processing device which

7   contain a block of data found in said message and replacing said block of data

8   with a pointer to said block of data in said prior messages.

1   22. The method as in claim 21 wherein said message is an email

2   message.

1   23. The method as in claim 21 further comprising:

2   transmitting said message to a data processing device, said data

3   processing device having said previous message stored.

1   24. The method as in claim 22 further comprising:

2 decompressing said message at said data processing device by inserting

3 said block of data from said previous message into said message.

1   25. The method as in claim 21 wherein said interface identifies said

2 previous message based on characters in said message's subject field.

1   26. The method as in claim 25 wherein said characters include text

2 indicating that said message is a response to said previous message.

1   27. The method as in claim 21 wherein said interface further compresses

2 said message further using one or more alternate compression techniques.

1   28. The method as in claim 27 wherein one of said alternate compression

2 techniques comprises:

3   replacing common strings of characters with one or more code words.

1   29. The method as in claim 28 wherein one of said strings of characters is

2 an email address domain.

1   30. The method as in claim 21 wherein said interface further compresses

2 said message by encoding portions of text in said message not in said block of

3 data using 6-bits per character.